

Product datasheet for TR516818

Cldn4 Mouse shRNA Plasmid (Locus ID 12740)

Product data:

Product Type: shRNA Plasmids

Product Name: Cldn4 Mouse shRNA Plasmid (Locus ID 12740)

Locus ID:

Cep-r; Cpe; Cpet; Cpetr; Cpetr1 Synonyms:

pRS (TR20003) Vector:

E. coli Selection: Ampicillin Mammalian Cell

Selection:

Puromycin

Format: Retroviral plasmids

Components: Cldn4 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

12740). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

BC132376, BC132378, NM 009903, NM 009903.1, NM 009903.2, BC032172 RefSeq:

UniProt ID: 035054

This gene encodes a member of the claudin family. Claudins are integral membrane proteins **Summary:**

and components of tight junction strands. Tight junction strands serve as a physical barrier to

prevent solutes and water from passing freely through the paracellular space between

epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and

signal transductions. The protein encoded by this gene is a high-affinity receptor for clostridium perfringens enterotoxin (CPE) produced by the bacterium Clostridium

perfringens, and the interaction with CPE results in increased membrane permeability by forming small pores in plasma membrane. This protein augments alveolar epithelial barrier function and is induced in acute lung injury. It is highly expressed in pancreatic and ovarian

cancers. [provided by RefSeq, Aug 2010]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

> be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).